

JADE COMPUTER PRODUCTS
CP/M 2.2 - DOUBLE D

THE FOLLOWING IS A LIST OF FILES PRESENT ON THE JADE DOUBLE D DISKETTE. A BRIEF DESCRIPTION IS ALSO INCLUDED.

ASM.COM	CP/M ASSEMBLER - PROVIDED BY DIGITAL RESEARCH.
BIM.ASM	BOOTSTRAP INJECTION MODULE - PART 2 OF A SYSTEM BOOTSTRAP PROM. IN TDL MACRO ASSEMBLER SOURCE.
BIM.HEX	BOOTSTRAP INJECTION MODULE - THIS FILES IN INTEL HEX FORMAT.
BIOS.ASM	BASIC I/O SYSTEM - PROVIDED BY DIGITAL RESEARCH. BIOS FOR MDS DEVELOPMENT SYSTEM.
BIOSGEN.COM	BIOS GENERATOR UTILITY - USED TO READ AND WRITE AN IMAGE OF THE USERS CBIOS FROM AND TO SYSTEM TRACK 0. THE IMAGE OF CBIOS RESIDES AT 1000H TO 13FFH. USE DDT TO PUT THE CBIOS IMAGE AT THAT ADDRESS.
BLT.ASM	BIOS LOADER TRANSIENT - SOURCE CODE FOR "COLD START LOADER" AS GENERATED BY MOVCPM.COM.
BOOT.COM	BOOT - PRESENTED AS A COM FILE, IF EXECUTED BY A SINGLE DENSITY CP/M SYSTEM IN WHICH THE DOUBLE D ALSO IS PRESENT, THIS WILL BOOT THE DOUBLE D SYSTEM.
CBIOS.ASM	BASIC I/O SYSTEM - SKELETAL BIOS PROVIDED BY DIGITAL RESEARCH.
CPM20.COM	IMAGE OF COLD START LOADER, CCP AND BDOS IN THE SAME FORMAT AS GENERATED BY MOVCPM 20 * AND THEN SAVE 34 CPM20.COM.
DCM.ASM	DISK CONTROLLER MODULE - SOURCE CODE (TDL Z80) FOR THE DOUBLE D ONBOARD Z80A.
DCM.HEX	DISK CONTROLLER MODULE - INTEL HEX FORMAT OF DCM.
DCMGEN.COM	DCM GENERATOR UTILITY - USED TO READ AND WRITE AN IMAGE OF THE USERS DCM FROM OR TO SYSTEM TRACK 0. THE IMAGE OF DCM RESIDES AT 1000H TO 13FFH. USE DDT TO PUT DCM IMAGE AT THIS ADDRESS AND TO MAKE PATCHES.
DDBIOS.ASM	DOUBLE D BIOS - CP/M ASSEMBLER FORMAT SOURCE CODE FOR DOUBLE D BIOS. THIS ASSEMBLE IS LISTED IN THE SOFTWARE MANUAL.
DDBIOS.HEX	DOUBLE D BIOS - INTEL HEX FORMAT DDBIOS FILE.
DDT.COM	DYNAMIC DEBUG TOOL - DIGITAL RESEARCH.
DEBLOCK.ASM	DEBLOCKING SOURCE CODE - DIGITAL RESEARCH.
DISKDEF.LIB	DISK DEFINITION LIBRARY - DIGITAL RESEARCH.
DUMP.ASM	FILE DUMP UTILITY - SOURCE BY DIGITAL RESEARCH.
DUMP.COM	FILE DUMP UTILITY - COM BY DIGITAL RESEARCH.
ED.COM	EDITOR UTILITY - DIGITAL RESEARCH.
FORMAT.ASM	FORMAT UTILITY - DOUBLE D FORMAT PROGRAM SOURCE.
FORMAT.COM	FORMAT UTILITY - DOUBLE D FORMAT PROGRAM. FORMATS ON ANY DRIVE A THROUGH D IN SINGLE AND DOUBLE DENSITY.
LOAD.COM	LOAD UTILITY - DIGITAL RESEARCH.
MOVCPM.COM	CP/M RELOCATION UTILITY - GENERATES CP/M SYSTEM WITH BLT FOR JADE DOUBLE D.

OLDSYS.COM SYSGEN UTILITY - DIGITAL RESEARCH SYSGEN.COM AS
DOCUMENTED IN CP/M MANUALS.
PIP.COM FILE TRANSFER UTILITY - DIGITAL RESEARCH.
SBD.ASM SYSTEM BOOT DRIVER - PART 1 OF SYSTEM PROM BOOT.
STAT.COM ASSEMBLED SOURCE LISTING IS IN SOFTWARE MANUAL.
SUBMIT.COM SYSTEM STATUS UTILITY - DIGITAL RESEARCH.
SYSGEN.COM CP/M BATCH SUBSYSTEM - DIGITAL RESEARCH.
CSL/CCP/BDOS GENERATOR UTILITY - DOUBLE D SYSTEM
TRACKS COMPATABLE. SIMILAR TO SYSGEN.COM
DESCRIBED IN CP/M MANUALS BUT DOES NOT READ OR
WRITE BIOS. USE BIOSGEN FOR YOUR CBIOS.
XSUB.COM EXTENDED BATCH SUBSYSTEM - DIGITAL RESEARCH.

THE SYSTEM TRACKS HAVE A DIFFERENT LAYOUT THAN THE DISKETTES DISTRIBUTED BY DIGITAL RESEARCH. THIS SECTION PRESENTS A DESCRIPTION OF THE SYSTEM TRACKS (0 AND 1) AS DISTRIBUTED FOR THE JADE DOUBLE D DISK CONTROLLER BOARD. THOSE MODULES RESIDING ON THE SYSTEM TRACKS WHICH OFTEN NEED TO BE MODIFIED FOR A SPECIFIC SYSTEM ARE ON TRACK 0, WHICH IS IN SINGLE DENSITY. CCP AND BDOS, WHICH ARE NOT MODIFIED BY THE USER ARE ON TRACK 1 IN DOUBLE DENSITY. ALL DATA TRACKS ARE IN SINGLE DENSITY SUCH THAT THE DOUBLE D DISTRIBUTION DISKETTE CAN BE READ AND MODIFIED ON MOST 8" SINGLE DENSITY CP/M SYSTEMS.

THE FOLLOWING TABLE SHOWS THE LAYOUT OF SYSTEM TRACK 0. THIS TRACK IS FORMATTED IN SINGLE DENSITY WITH 26 SEQUENTIALLY NUMBERED SECTORS.

SECTOR NUMBER	EXECUTION ADDRESS	FORMAT LD ADDR	MODULE NAME
01	N.A.	1000H	IDT
02	1380H (DD)	1080H	BLT
03		1100H	
04	4A00H+B	1180H	BIOS
05	4A80H+B	1200H	BIOS
06	4B00H+B	1280H	BIOS
07	4B80H+B	1300H	BIOS
08	4C00H+B	1380H	BIOS
09	4C80H+B	1400H	BIOS
10	4D00H+B	1480H	BIOS
11	4D80H+B	1500H	BIOS
12		1580H	RSV
13	1000H (DD)	1600H	DCM
14	1080H (DD)	1680H	DCM
15	1100H (DD)	1700H	DCM
16	1180H (DD)	1780H	DCM
17	1200H (DD)	1800H	DCM
18	1280H (DD)	1880H	DCM
19	1300H (DD)	1900H	DCM
20	1380H (DD)	1980H	DCM
21	1400H (DD)	1A00H	RSV
22	1480H (DD)	1A80H	RSV
23	1500H (DD)	1B00H	RSV
24	1580H (DD)	1B80H	RSV
25	1600H (DD)	1C00H	RSV
26	1680H (DD)	1C80H	RSV

THE FOLLOWING TABLE SHOWS THE LAYOUT OF SYSTEM TRACK 1. THIS TRACK IS FORMATTED IN DOUBLE DENSITY WITH 48 PHYSICALLY STAGGERED SECTORS.

SECTOR NUMBER	EXECUTION ADDRESS	FORMAT LD ADDR	MODULE NAME
01		1D00H	SPARE
02	3400H+B	1D80H	CCP
03	3480H+B	1E00H	CCP
04	3500H+B	1E80H	CCP
05	3580H+B	1F00H	CCP
06	3600H+B	1F80H	CCP
07	3680H+B	2000H	CCP
08	3700H+B	2080H	CCP
09	3780H+B	2100H	CCP
10	3800H+B	2180H	CCP
11	3880H+B	2200H	CCP
12	3900H+B	2280H	CCP
13	3980H+B	2300H	CCP
14	3A00H+B	2380H	CCP
15	3A80H+B	2400H	CCP
16	3B00H+B	2480H	CCP
17	3B80H+B	2500H	CCP
18	3C00H+B	2580H	BDOS
19	3C80H+B	2600H	BDOS
20	3D00H+B	2680H	BDOS
21	3D80H+B	2700H	BDOS
22	3E00H+B	2780H	BDOS
23	3E80H+B	2800H	BDOS
24	3F00H+B	2880H	BDOS
25	3F80H+B	2900H	BDOS
26	4000H+B	2980H	BDOS
27	4080H+B	2A00H	BDOS
28	4100H+B	2A80H	BDOS
29	4180H+B	2B00H	BDOS
30	4200H+B	2B80H	BDOS
31	4280H+B	2C00H	BDOS
32	4300H+B	2C80H	BDOS
33	4380H+B	2D00H	BDOS
34	4400H+B	2D80H	BDOS
35	4480H+B	2E00H	BDOS
36	4500H+B	2E80H	BDOS
37	4580H+B	2F00H	BDOS
38	4600H+B	2F80H	BDOS
39	4680H+B	3000H	BDOS
40	4700H+B	3080H	BDOS
41	4780H+B	3100H	BDOS
42	4800H+B	3180H	BDOS
43	4880H+B	3200H	BDOS
44	4900H+B	3280H	BDOS
45	4980H+B	3300H	BDOS
46		3380H	SPARE
47		3400H	SPARE
48		3480H	SPARE

SYSTEM TRACK GENERATOR UTILITIES:

THE THREE GENERATOR UTILITIES . SYSGEN.COM, BIOSGEN.COM, AND DCMGEN.COM PROVIDE THE END USER THE ABILITY TO EXTRACT AND REWRITE VARIOUS SECTIONS OF THE SYSTEM TRACKS. THE FOLLOWING TABLE SHOWS WHICH SECTIONS OF MEMORY ARE USED BY EACH PROGRAM AND WHICH SYSTEM TRACK MODULES ARE READ OR REWRITTEN. SYSGEN.COM IS SIMILAR TO THE SYSGEN.COM DESCRIBED IN THE CP/M 2.0 MANUAL SET. NOTICE THE DIFFERENCE IS THE BIOS MODULE. EACH OF THESE PROGRAMS PROVIDE A FILE LOAD FEATURE. AN EXAMPLE, IF YOU HAD A FILE CPM32.COM AND YOU WISHED TO WRITE THIS FILE TO THE SYSTEM TRACKS.

A>DDT CPM32.COM
(DDT DISPLAYS MESSAGE)

-GO

A>SYSGEN
(AND THEN WRITE YOUR FILE)

A>SYSGEN CPM32.COM
(YOU GET A FILE LOADED MESSAGE)
NOW WRITE YOUR FILE.

IN CHANGING THE CP/M SYSTEM SIZE, YOU MUST REWRITE BLT/CCP/BDOS USING SYSGEN.COM AND REWRITE BIOS USING BIOSGEN.COM. DCMGEN IS USED TO MODIFY DCM FOR SUCH PARAMETERS AND DISK DRIVE STEP TIMING. CONSULT YOUR DCM LISTING FOR THE TIMING PARAMETERS.

UTILITY	MODULE	TRACK	SECTORS	SYYSTEM ADDRESS
SYSGEN.COM	BLT	0	2	0900-097FH
	CCP	1	2-17	0980-117FH
	BDOS	1	18-45	1180-1F7FH
BIOSGEN.COM	BIOS	0	4-11	1000-13FFH
DCMGEN.ASM	DCM	0	13-20	1000-13FFH

NOTES FOR RELEASE #1 DISKETTES. THE DDBIOS IS ASSEMBLED FOR A REV B DOUBLE D CONTROLLER BOARD. DDBIOS SOURCE SHOULD BE MODIFIED, REASSEMBLED, AND WRITTEN TO SYSTEM TRACK 0 FOR REV C BOARDS.

THE FOLLOWING JUMPERS SHOULD BE USED TO CONFIGURE A SHUGART 800 DISK DRIVE.

EACH DRIVE: A, B, C, Y, T2, DS, 800

DRIVE A: DS1

DRIVE B: DS2

DRIVE C: DS3

DRIVE D: DS4

LAST DRIVE: T1, T3, T4, T5, T6

THE L JUMPER IS SET DEPENDING ON THE -5V SUPPLY.
CONSULT YOUR SA800 MANUAL.

USE ONLY THESE JUMPERS, NO OTHERS.